L Number	Hits	Search Text	DB	Time stamp
1	530	((568/648) or (568/658)).CCLS.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/08/17 07:30
2	444	calamus or calamous or $3asarone	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/08/17 07:58
3	2	(((568/648) or (568/658)).CCLS.) and (calamus or calamous or $3asarone)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/08/17 07:34
4	191811	hydrogenat$6	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/08/17 07:35
5	32	(calamus or calamous or $3asarone) same hydrogenat$6	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/08/17 07:58
6	222	((568/648) or (568/658)).CCLS.	USOCR	2004/08/17 07:58
7	20	calamus or calamous or $3asarone	USOCR	2004/08/17 07:59
8	0	(((568/648) or (568/658)).CCLS.) and (calamus or calamous or $3asarone)	USOCR	2004/08/17 07:59
9	4	(calamus or calamous or $3asarone) and hydrogenat$6	USOCR	2004/08/17 08:01
10	0	1-propyl-2,4,5-trimethoxybenzene	USOCR	2004/08/17 08:04
11	0	2,4,5-trimethoxypropenylbenzene	USOCR	2004/08/17 08:04
12	0	"2,4,5-trimethoxy" near2 propenyl near2 benzene	USOCR	2004/08/17 08:05
13	0	"1-propyl" near2 "2,4,5-trimethoxy" near2 benzene	USOCR	2004/08/17 08:05
14	0	"1-propyl" near2 "2,4,5-trimethoxy" near2 benzene	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/08/17 08:05
15	0	"2,4,5-trimethoxy" near2 propenyl near2 benzene	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/08/17 08:06
16	1227	sinha.in.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/08/17 08:06
17	20	(calamus or calamous or $3asarone) and sinha.in.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/08/17 08:06

09/652,376

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PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * * * * * * Welcome to STN International * * * * * * * * * *

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NEWS 2		"Ask CAS" for self-help around the clock
NEWS 3	May 12	EXTEND option available in structure searching
NEWS 4	May 12	Polymer links for the POLYLINK command completed in REGISTRY
NEWS 5	May 27	New UPM (Update Code Maximum) field for more efficient patent SDIs in CAplus
NEWS 6	May 27	CAplus super roles and document types searchable in REGISTRY
NEWS 7	Jun 28	Additional enzyme-catalyzed reactions added to CASREACT
NEWS 8	Jun 28	ANTE, AQUALINE, BIOENG, CIVILENG, ENVIROENG, MECHENG, and WATER from CSA now available on STN(R)
NEWS 9	Jul 12	BEILSTEIN enhanced with new display and select options, resulting in a closer connection to BABS
NEWS 10	Jul 30	BEILSTEIN on STN workshop to be held August 24 in conjunction with the 228th ACS National Meeting
NEWS 11	AUG 02	IFIPAT/IFIUDB/IFICDB reloaded with new search and display fields
NEWS 12	AUG 02	CAplus and CA patent records enhanced with European and Japan Patent Office Classifications
NEWS 13	AUG 02	STN User Update to be held August 22 in conjunction with the 228th ACS National Meeting
NEWS 14	AUG 02	The Analysis Edition of STN Express with Discover! (Version 7.01 for Windows) now available
NEWS 15	AUG 04	Pricing for the Save Answers for SciFinder Wizard within STN Express with Discover! will change September 1, 2004

NEWS EXPRESS	JULY 30 CURRENT WINDOWS VERSION IS V7.01, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 11 AUGUST 2004
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NEWS WWW	CAS World Wide Web Site (general information)

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* * * * * * * * * * * * * * STN Columbus * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 08:37:44 ON 17 AUG 2004

```
=> FIL STNGUIDE
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                      ENTRY    SESSION
FULL ESTIMATED COST                                    0.21       0.21

FILE 'STNGUIDE' ENTERED AT 08:37:56 ON 17 AUG 2004
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AND TECHNOLOGY CORPORATION, AND FACHINFORMATIONSZENTRUM KARLSRUHE

FILE CONTAINS CURRENT INFORMATION.
LAST RELOADED: Aug  6, 2004 (20040806/UP).

=> FIL HOME
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                      ENTRY    SESSION
FULL ESTIMATED COST                                    0.06       0.27

FILE 'HOME' ENTERED AT 08:38:01 ON 17 AUG 2004

=> file reg
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                      ENTRY    SESSION
FULL ESTIMATED COST                                    0.21       0.48

FILE 'REGISTRY' ENTERED AT 08:38:22 ON 17 AUG 2004
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provided by InfoChem.

STRUCTURE FILE UPDATES:   16 AUG 2004  HIGHEST RN 727651-15-2
DICTIONARY FILE UPDATES:  16 AUG 2004  HIGHEST RN 727651-15-2

TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

  Please note that search-term pricing does apply when
  conducting SmartSELECT searches.

Crossover limits have been increased.  See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html

=> ....Testing the current file.... screen

ENTER SCREEN EXPRESSION OR (END):end


=> screen 1992 OR  2016 OR  2021 OR  2026 OR  1839

L1    SCREEN CREATED

=>
Uploading C:\Program Files\Stnexp\Queries\09652376.str
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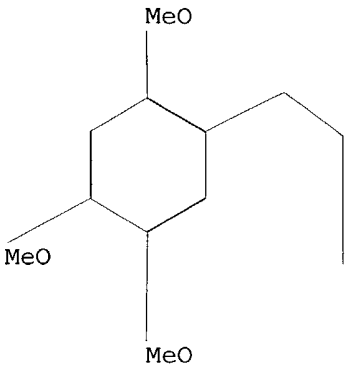
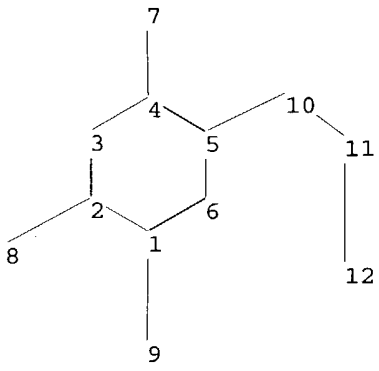




chain nodes :
7 8 9 10 11 12
ring nodes :
1 2 3 4 5 6
chain bonds :
1-9 2-8 4-7 5-10 10-11 11-12
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6
exact bonds :
1-9 2-8 4-7 5-10 10-11 11-12
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6
isolated ring systems :
containing 1 :

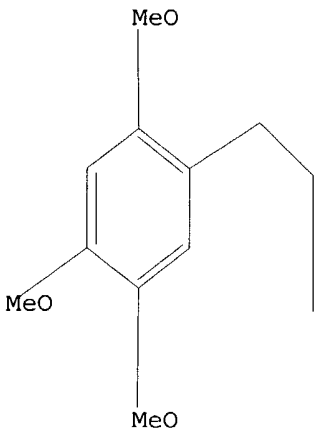
Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:CLASS 9:CLASS 10:CLASS
11:CLASS 12:CLASS

L2 STRUCTURE UPLOADED

=> que L2 NOT L1

L3 QUE L2 NOT L1

=> d
L3 HAS NO ANSWERS
L1 SCR 1992 OR 2016 OR 2021 OR 2026 OR 1839
L2 STR



Structure attributes must be viewed using STN Express query preparation.
L3 QUE L2 NOT L1

=> s l3
SAMPLE SEARCH INITIATED 08:38:42 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 58 TO ITERATE

100.0% PROCESSED 58 ITERATIONS 8 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 704 TO 1616
PROJECTED ANSWERS: 8 TO 329

L4 8 SEA SSS SAM L2 NOT L1

=> s l3 ful
FULL SEARCH INITIATED 08:38:47 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 1215 TO ITERATE

100.0% PROCESSED 1215 ITERATIONS 175 ANSWERS
SEARCH TIME: 00.00.01

L5 175 SEA SSS FUL L2 NOT L1

=> file stnguide
COST IN U.S. DOLLARS SINCE FILE ENTRY TOTAL SESSION
FULL ESTIMATED COST 155.42 155.90

FILE 'STNGUIDE' ENTERED AT 08:39:02 ON 17 AUG 2004
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AND TECHNOLOGY CORPORATION, AND FACHINFORMATIONSZENTRUM KARLSRUHE

FILE CONTAINS CURRENT INFORMATION.
LAST RELOADED: Aug 6, 2004 (20040806/UP).

=> file reg
COST IN U.S. DOLLARS SINCE FILE ENTRY TOTAL SESSION

09/652,376

FULL ESTIMATED COST 0.18 156.08

FILE 'REGISTRY' ENTERED AT 08:40:44 ON 17 AUG 2004
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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 16 AUG 2004 HIGHEST RN 727651-15-2
DICTIONARY FILE UPDATES: 16 AUG 2004 HIGHEST RN 727651-15-2

TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html

=> ....Testing the current file.... screen

ENTER SCREEN EXPRESSION OR (END):end

=> screen 1992 OR 2016 OR 2021 OR 2026 OR 1839

L6 SCREEN CREATED

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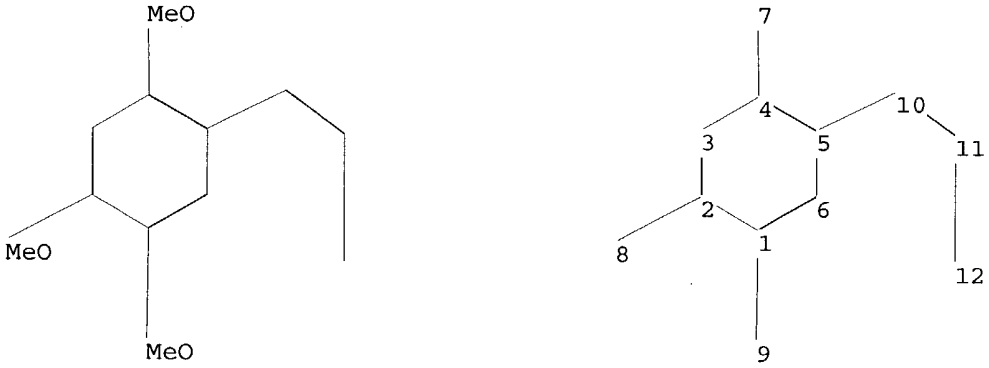
Uploading C:\Program Files\Stnexp\Queries\09652376a.str



chain nodes :
7 8 9 10 11 12
ring nodes :
1 2 3 4 5 6
chain bonds :
1-9 2-8 4-7 5-10 10-11 11-12
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6
exact bonds :
1-9 2-8 4-7 5-10 10-11 11-12
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6

isolated ring systems :
containing 1 :

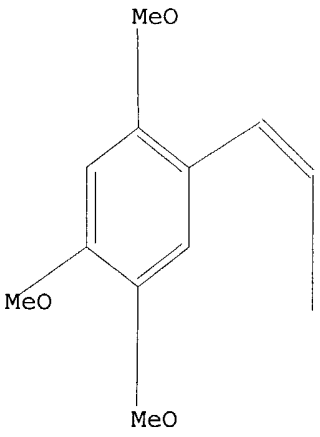
Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:CLASS 9:CLASS 10:CLASS
11:CLASS 12:CLASS

L7 STRUCTURE UPLOADED

=> que L7 NOT L6

L8 QUE L7 NOT L6

=> d
L8 HAS NO ANSWERS
L6 SCR 1992 OR 2016 OR 2021 OR 2026 OR 1839
L7 STR



Structure attributes must be viewed using STN Express query preparation.
L8 QUE L7 NOT L6

=> s l8
SAMPLE SEARCH INITIATED 08:41:44 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 9 TO ITERATE

100.0% PROCESSED 9 ITERATIONS 4 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 9 TO 360
PROJECTED ANSWERS: 4 TO 200

L9 4 SEA SSS SAM L7 NOT L6

=> s l8 ful
FULL SEARCH INITIATED 08:41:50 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 181 TO ITERATE

100.0% PROCESSED 181 ITERATIONS 85 ANSWERS
SEARCH TIME: 00.00.01

L10 85 SEA SSS FUL L7 NOT L6

=> file caplus uspatfull
COST IN U.S. DOLLARS SINCE FILE ENTRY TOTAL SESSION
FULL ESTIMATED COST 155.84 311.92

FILE 'CAPLUS' ENTERED AT 08:42:08 ON 17 AUG 2004
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FILE 'USPATFULL' ENTERED AT 08:42:08 ON 17 AUG 2004

=> s l5 and l10
L11 60 L5 AND L10

=> dup rem l11
PROCESSING COMPLETED FOR L11
L12 56 DUP REM L11 (4 DUPLICATES REMOVED)

=> s l12 and hydrogenat?
L13 16 L12 AND HYDROGENAT?

=> d 1-16 bib ab fhitstr

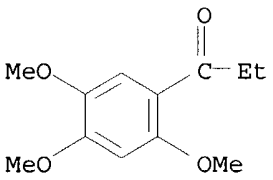
L13 ANSWER 1 OF 16 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2003:777737 CAPLUS
DN 139:292100
TI Formation of neolignan by DDQ mediated dimerization of dihydroasarone
IN Sinha, Arun Kumar; Joshi, Bhupendra Prasad; Acharya, Ruchi
PA Council of Scientific and Industrial Research, India
SO PCT Int. Appl., 37 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2003080551	A1	20031002	WO 2002-IN73	20020327

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRAI WO 2002-IN73 20020327
OS CASREACT 139:292100
AB The present invention relates to a novel neolignan 3-ethyl-2-methyl-3-(2'',4'',5''-trimethoxyphenyl)-1-(2',4',5'-trimethoxyphenyl)-1-propene and a process for the preparation of high purity, high yield neolignan, α-asarone, and 2,4,5-trimethoxyphenylpropionone from β-asarone or β-asarone rich Acorus calamus oil containing α- and γ-asarone by hydrogenating and dimerizing by treatment

with DDQ in presence of an organic acid.
IT 3904-18-5P
RL: BYP (Byproduct); PREP (Preparation)
(DDQ-mediated one step dimerization of β-asarone or β-asarone rich Acorus calamus oil in the formation of novel neolignans)
RN 3904-18-5 CAPLUS
CN 1-Propanone, 1-(2,4,5-trimethoxyphenyl)- (9CI) (CA INDEX NAME)

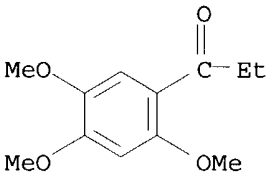


RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 ANSWER 2 OF 16 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2003:777446 CAPLUS
DN 139:292099
TI DDQ-mediated one step dimerization of β-asarone or β-asarone rich Acorus calamus oil in the formation of novel neolignan
IN Sinha, Arun Kumar; Joshi, Bhupendra Prasad; Acharya, Ruchi
PA Council of Scientific & Industrial Research, India
SO U.S. Pat. Appl. Publ., 20 pp.
CODEN: USXXCO
DT Patent
LA English
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI US 2003187306	A1	20031002	US 2002-108269	20020328
US 2004049085	A1	20040311	US 2003-660556	20030912
PRAI US 2002-108269	B3	20020328		

OS CASREACT 139:292099
AB The present invention relates to a novel neolignan, 3-ethyl-2-methyl-3-(2'',4'',5''-trimethoxyphenyl)-1-(2',4',5'-trimethoxyphenyl)-1-(2',4',5'-trimethoxy)phenyl-1-propene [NEOLASA-I (I)], and a process for the preparation of high purity, higher yield neolignan, α-asarone, 2,4,5-trimethoxy-phenylpropionone from β-asarone (II) or β-asarone rich Acorus calamus oil containing α- and γ-asarone by hydrogenating and dimerizing by treatment with DDQ in presence of an organic acid.
IT 3904-18-5P, 1-(2,4,5-Trimethoxyphenyl)-1-propanone
RL: BYP (Byproduct); PREP (Preparation)
(DDQ-mediated one step dimerization of β-asarone or β-asarone rich Acorus calamus oil in the formation of novel neolignans)
RN 3904-18-5 CAPLUS
CN 1-Propanone, 1-(2,4,5-trimethoxyphenyl)- (9CI) (CA INDEX NAME)



L13 ANSWER 3 OF 16 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2003:524051 CAPLUS
DN 139:90404
TI Process for the preparation of pharmacologically active α-asarone from toxic β-asarone-rich Acorus calamus oil
IN Sinha, Arun Kumar; Joshi, Bhupendra Prasad; Acharya, Ruchi
PA Council of Scientific & Industrial Research, India
SO U.S., 22 pp.
CODEN: USXXAM
DT Patent
LA English
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI US 6590127	B1	20030708	US 2002-107844	20020328
WO 2003082786	A1	20031009	WO 2002-IN94	20020328

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

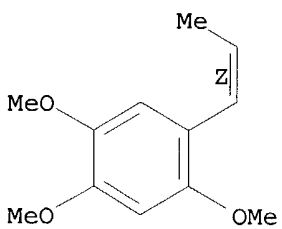
PRAI US 2002-107844 A 20020328

AB The present invention relates to a process for the preparation of high purity and yield α-asarone, trans-2,4,5-trimethoxycinnamaldehyde, and 2,4,5-trimethoxyphenylpropanone, from β-asarone or β-asarone-rich Acorus calamus oil containing α and γ-asarone by hydrogenation, followed by treatment with a dehydrogenating agent dichlorodicyanobenzoquinone (DDQ) with or without solid support of silica gel or alumina in dry organic solvent. α-Asarone can also be obtained by treating the hydrogenated product of β-asarone or β-asarone-rich A. calamus oil with DDQ in an aqueous organic solvent to obtain an intermediate 2,4,5-trimethoxyphenylpropanone, which in turn is reduced with sodium borohydride to obtain the corresponding 2,4,5-trimethoxyphenylpropanol and followed by final treatment with a dehydrating agent.

IT 5273-86-9P, β-Asarone
RL: PUR (Purification or recovery); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)
(isolation and hydrogenation of; preparation of pharmacol. active α-asarone by hydrogenation of toxic β-asarone-rich Acorus calamus oil)

RN 5273-86-9 CAPLUS
CN Benzene, 1,2,4-trimethoxy-5-(1Z)-1-propenyl- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



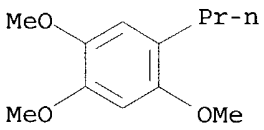
09/652,376

RE.CNT 91 THERE ARE 91 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 ANSWER 4 OF 16 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2002:221245 CAPLUS
DN 136:247399
TI Process for the preparation of 1-propyl-2,4,5-trimethoxybenzene from toxic β-asarone of Acorus calamus or from crude calamus oil containing β-asarone
IN Sinha, Arun Kumar
PA Council of Scientific and Industrial Research, India
SO U.S. Pat. Appl. Publ., 16 pp., Division of U.S. Ser. No. 652,376.
CODEN: USXXCO
DT Patent
LA English
FAN.CNT 1

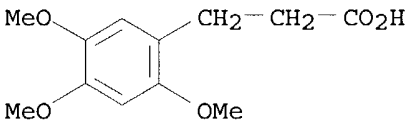
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2002035299	A1	20020321	US 2001-957867	20010921
	US 6528041	B2	20030304		
	CN 1340494	A	20020320	CN 2001-119219	20010327
	JP 2002088004	A2	20020327	JP 2001-101894	20010330
	US 2003113275	A1	20030619	US 2003-338327	20030108
PRAI	US 2000-652376	A3	20000831		
	US 2001-957867	A3	20010921		

OS CASREACT 136:247399
AB The invention relates to a process for the preparation of 1-Propyl-2,4,5-trimethoxybenzene useful as a aroma mol. and as a starting material and intermediate for preparation of various drugs. The process comprises providing crude calamus oil or β-asarone in a solvent; hydrogenating the solution in the presence of a catalyst; filtering the catalyst and removing the solvent under reduced pressure; subjecting the reduced calamus oil to column of silica gel chromatog. using an eluent to obtain the desired product in liquid form with 85-97% purity.
IT 6906-65-6P, Benzene, 1,2,4-trimethoxy-5-propyl-
RL: COS (Cosmetic use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of 1-propyl-2,4,5-trimethoxybenzene from toxic β-asarone of Acorus calamus or from crude calamus oil containing β-asarone)
RN 6906-65-6 CAPLUS
CN Benzene, 1,2,4-trimethoxy-5-propyl- (7CI, 8CI, 9CI) (CA INDEX NAME)

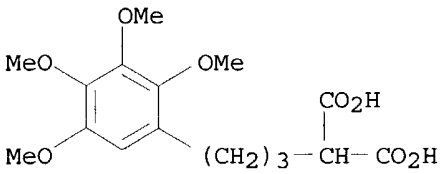


L13 ANSWER 5 OF 16 CAPLUS COPYRIGHT 2004 ACS on STN
AN 1990:158021 CAPLUS
DN 112:158021
TI Preparation of quinone imine ketals via intramolecular condensation of amino-substituted quinone monoketals. Anodic oxidation chemistry of trifluoroacetamide derivatives of 1,4-dimethoxybenzenes and 4-methoxyphenols
AU Swenton, John S.; Shih, Chuan; Chen, Chung Pin; Chou, Chun Tzer
CS Dep. Chem., Ohio State Univ., Columbus, OH, 43210, USA
SO Journal of Organic Chemistry (1990), 55(7), 2019-26
CODEN: JOCEAH; ISSN: 0022-3263
DT Journal

LA English
OS CASREACT 112:158021
AB Two routes have been developed to the previously unknown quinone ketal moiety. One involves a sequence of anodic oxidation of the N-trifluoroacetamide of a 2-(2,5-dimethoxyphenyl)ethylamine (I; n = 1, R = OMe, Br) or 3-(2,5-dimethoxyphenyl)propylamine (I; n = 2) to form the resp. quinone bisketal followed by basic hydrolysis of the trifluoroacetamide linkage, acidic hydrolysis of the quinone bisketal to a quinone monoketal and intramol. condensation to form the quinone imine ketal II (R1 = R2 = H). This method requires the bromo or methoxy substituent to direct the regiochem. of the quinone bisketal hydrolysis. The second method involves similar chemical except that the anodic oxidation of 4-methoxyphenol III (n = 1, 2; R1 = R2 = H; R1 = H, Me, R1 = OH) directly affords the quinone monoketal. Hydrolysis of the trifluoroacetamide followed by an intramol. condensation reaction affords the quinone imine ketal II. Selected aspects of the chemical of these compds. have been studied. Especially interesting is the reaction of quinone imine ketal III (n = 1, R1 = Me, R2 = OH) with MeLi, PhLi, BuLi, Me3Li, EtCHMeLi. Either 1- or 2-substituted-5-methoxyindole is produced, depending upon the organolithium compound
IT 125438-30-4P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and amidation of)
RN 125438-30-4 CAPLUS
CN Benzenepropanoic acid, 2,4,5-trimethoxy- (9CI) (CA INDEX NAME)



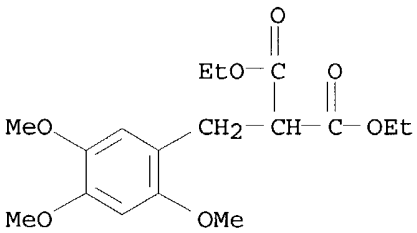
L13 ANSWER 6 OF 16 CAPLUS COPYRIGHT 2004 ACS on STN
AN 1985:6246 CAPLUS
DN 102:6246
TI Derivatives of 1,3-benzodioxole, 51. Preparation and reactions of 6,7,8,9-tetrahydrocyclohepta[4,5]benzo[1,2-d][1,3]dioxol-5-one
AU Dallacker, Franz; Tumbrink, Ludwig
CS Abt. Chem. Med., Tech. Hochsch. Aachen, Aachen, D-5100, Fed. Rep. Ger.
SO Zeitschrift fuer Naturforschung, Teil B: Anorganische Chemie, Organische Chemie (1984), 39B(7), 925-35
CODEN: ZNBAD2; ISSN: 0340-5087
DT Journal
LA German
OS CASREACT 102:6246
AB Phenylvaleric acids were prepared from benzaldehydes and MeCH:C(CO2Et)2 and were cyclized with polyphosphoric acid to give benzocycloheptenones I (R, R3 = H, OMe; R1, R2 = OMe; R1R2, R2R3 = OCH2O) which were reduced to the alcs. and dehydrated to the didehydro derivs. I (R = R3 = H, R1R2 = OCH2O) was heated with DMF-POCl3 to give II which underwent a number of reactions.
IT 93399-46-3P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and decarboxylation of)
RN 93399-46-3 CAPLUS
CN Propanedioic acid, [3-(2,3,4,5-tetramethoxyphenyl)propyl]- (9CI) (CA INDEX NAME)



L13 ANSWER 7 OF 16 CAPLUS COPYRIGHT 2004 ACS on STN
AN 1981:569176 CAPLUS
DN 95:169176
TI Thiazolidine derivatives
IN Kawamatsu, Yutaka; Shoda, Takashi; Hirata, Takeo
PA Takeda Chemical Industries, Ltd. , Japan
SO Eur. Pat. Appl., 21 pp.
CODEN: EPXXDW
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 32128	A1	19810715	EP 1981-300027	19810106
	R: BE, CH, DE, FR, GB, IT, NL, SE				
	JP 56097277	A2	19810805	JP 1980-762	19800107
	JP 63010702	B4	19880308		
	DK 8100022	A	19810708	DK 1981-22	19810105
	ES 498320	A1	19820201	ES 1981-498320	19810105
	US 4376777	A	19830315	US 1981-222881	19810106
PRAI	JP 1980-762		19800107		

OS CASREACT 95:169176
AB Benzylthiazolidinediones I (R = H, OH, alkyl, alkoxy, acyloxy; R1 and R2 are OH, alkyl, alkoxy, acyloxy), which showed antiulcer activity, were prepared by different methods. A mixture of 3,4-(MeO)2C6H3CH2CHClCO2Et, thiourea, sulfolane, and N HCl was stirred 6 h at 100° to give I (R = H, R1 = 3-OMe, R2 = 4-OMe).
IT 79524-93-9P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and chlorination of)
RN 79524-93-9 CAPLUS
CN Propanedioic acid, [(2,4,5-trimethoxyphenyl)methyl]-, diethyl ester (9CI) (CA INDEX NAME)



L13 ANSWER 8 OF 16 CAPLUS COPYRIGHT 2004 ACS on STN
AN 1956:89126 CAPLUS
DN 50:89126
OREF 50:16731c-i,16732a-c
TI Dimeric propenylphenol ethers. XXIII. Dehalogenation of

α,β-dibromopropylphenol ethers with metallic copper. The trans-cis-diastereoisomer of diisoeugenol

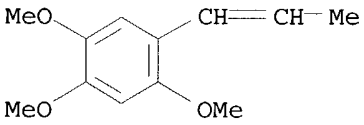
AU Muller, Alexander; Kucsman, Arpad
CS Univ. Budapest, Hung.

SO Chemische Berichte (1954), 87, 1747-52
CODEN: CHBEAM; ISSN: 0009-2940
DT Journal
LA Unavailable

AB The appropriate dibromo ether (XIX) (0.05 mole) in 150 cc. dry C6H6 was stirred 24 hrs. at 0° with 25 g. Cu powder, kept 24 hrs. at room temperature and finally stirred 1.5 hrs. at 50-5°, the mixture filtered, the residue washed with C6H6, the filtrate again filtered through a hardened filter and evaporated, and hydrogenated to determine the unreacted XIX; the resulting propyl ether was distilled from the mixture; the residue from the filtered C6H6 solution hydrogenated in EtOAc over Pd-C, the filtrate washed with H2O, and the Cl content titrated to determine the HBr liberated in the hydrogenation; 1/3 of the EtOAc solution evaporated and the residue refluxed 1 hr. with 5% KOH in MeOH and titrated with AgNO3 gave the amount of the resulting mono-brominated dimer; the remaining 2/3 of the EtOAc solution evaporated and the residue steam distilled gave the resulting propyl ether. Debrominations were carried out in this manner with the dibromides of the following compds. (% unchanged dibromide, % resulting propenylphenol ether, and % bromine-containing condensation products given): V, 0 (8), 44 (76), 39 (17); VII, 0 (7), 46 (68), 27 (23); X, 0, 46, 25; XII, 0, 64, 8; asaron, 2 (2), 20 (23), 32 (29). Dibromide (20 g.) of I (20 g.), m. 116-17°, in 30 cc. dry C6H6 treated with stirring with 24 g. Cu powder, the mixture kept 1.5 hrs. at 55° and filtered, the residue washed with warm C6H6, and the combined filtrate evaporated and rubbed with EtOAc gave 3 g. trans-trans-3a-bromo-5,3'-dimethoxy-6,4'-dibenzyloxymethronol (XX), colorless thin needles, m. 142°. XX (0.5 g.) in 25 cc. 90% EtOH refluxed 1 hr. with 3 g. Zn dust, filtered, and cooled gave 0.35 g. α-diisoeugenoldibenzyl ether (XXI), fine, thin needles, m. 84° (from 1:1 EtOAc-MeOH). XX (5 g.) and 8 g. KOH in 140 cc. MeOH refluxed 2 hrs. and cooled deposited 3.3 g. trans-dl-Δ3-dehydro-XXI, coarse prisms or needles, m. 120-1°; it gave with Br-AcOH an emerald-green color which rapidly disappeared. XX (5 g.) in 75 cc. EtOAc hydrogenated 4 hrs. over Pd-C gave 2 g. γ-diisoeugenol (trans-cis-6,4'-dihydroxy-5,3'-dimethoxymethronol) (XXII), coarse, colorless, transparent prisms, m. 109-10°, which disintegrated in air and gave an intense blue-green color with 1% Br-AcOH. XXII (0.1 g.) and 0.1 g. NaOAc refluxed in 1.5 cc. Ac2O gave 0.11 g. α-diisoeugenol diacetate (XXIII), long needles, m. 150°. XXII (0.3 g.) and 1 cc. Me2SO4 in 2 cc. MeOH treated dropwise at room temperature with 0.2 g. NaOH in 0.5 cc. H2O gave 0.2 g. di-Me ether of XXII, coarse, hard prisms, m. 99-100°, which gave with 1% Br-AcOH a purple-violet color. XXII or XXIII and EtBr in MeOH treated dropwise with 30% aqueous NaOH gave the di-Et ether of XXII, large, colorless prisms, m. 87-8° (from EtOH), which was also obtained by hydrogenating 0.5 g. Δ3-dehydrodiisoeugenol di-Et (XXIIIa) ether; it gave a bluish violet color with 1% Br-AcOH. Dibromide (17.6 g.) of VII in 30 cc. dry C6H6 treated with 25 g. Cu powder in the usual manner, the mixture filtered and evaporated, the residue hydrogenated in EtOAc and filtered, the filtrate evaporated, and the residue treated with a little EtOH gave 0.8 g. trans-trans-3α-bromo-5,3'-dimethoxy-6,4'-diethoxymethronol (XXIV), colorless, small needles, m. 157° (from EtOH). XXIV (0.1 g.) in 1.2 cc. 90% EtOH refluxed 1 hr. with 0.2 g. Zn dust, filtered hot, and cooled gave 0.06 g. α-diisoeugenol di-Et ether, long felted needles, m. 129° (from EtOH). XXIV treated with KOH in MeOH yielded XXIIIa, long colorless needles, m. 107-8° (from EtOH); it gave with Br-AcOH an emerald-green color which rapidly disappeared. 6-Methoxy-2-methyl-(p-

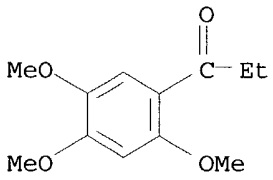
anisyl)-1-indenone (1 g.) in 30 cc. glacial AcOH hydrogenated 5 hrs. over 0.1 g. prereduced PtO2, the solvent evaporated, and the residual oil dissolved in Et2O, washed with dilute aqueous NaHCO3, dried, and concentrated to 10 cc. yielded 0.6 g. trans-6-methoxy-2-methyl-1-(p-anisyl)-3-indanone (XXV), colorless needles, m. 88-90° (from EtOH). XXV treated with 50% excess EtMgBr in Et2O, the mixture decomposed with cold aqueous NH4Cl, and the resulting product hydrogenated gave in several runs exclusively cis-cis-β-metanethol, m. 99-100°. 5-Methoxy-6-ethoxy-1-(3-methoxy-4-ethoxyphenyl)-1-inden-3-one hydrogenated in the usual manner gave the corresponding 3-indanone, colorless needles, m. 116-17° (from EtOH); the indanone treated with EtMgBr and then hydrogenated gave under various conditions only cis-cis-dl-IX, m. 114-15°.

IT 494-40-6, Benzene, 1,2,4-trimethoxy-5-propenyl-
(preparation of)
RN 494-40-6 CAPLUS
CN Benzene, 1,2,4-trimethoxy-5-(1-propenyl)- (9CI) (CA INDEX NAME)

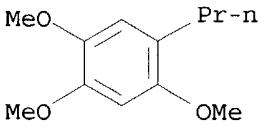


L13 ANSWER 9 OF 16 USPATFULL on STN
AN 2004:64566 USPATFULL
TI DDQ mediated one step dimerisation of beta-asarone or beta-asarone rich acorus calamus oil in the formation of novel neolignan
IN Sinha, Arun Kumar, Himachal Pradesh, INDIA
Joshi, Bhupendra Prasad, Himachal Pradesh, INDIA
Acharya, Ruchi, Himachal Pradesh, INDIA
PA COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH (non-U.S. corporation)
PI US 2004049085 A1 20040311
AI US 2003-660556 A1 20030912 (10)
RLI Division of Ser. No. US 2002-108269, filed on 28 Mar 2002, ABANDONED
DT Utility
FS APPLICATION
LREP FOLEY AND LARDNER, SUITE 500, 3000 K STREET NW, WASHINGTON, DC, 20007
CLMN Number of Claims: 22
ECL Exemplary Claim: 1
DRWN 9 Drawing Page(s)
LN.CNT 1005
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB The present invention relates to a novel neolignan (NEOLASA-I) 3-ethyl-2-methyl-3-(2", 4", 5"-trimethoxy-phenyl-1-(2',4',5'-trimethoxy) phenyl-1-(2',4',5'-trimethoxy)phenyl-1-propene and a process for the preparation of high purity, higher yield neolignan, α-asarone, 2,4,5-trimethoxy-phenyl propionone from β-asarone or β-asarone rich Acorus calamus oil containing α and γ-asarone by hydrogenating and dimerizing by treatment with DDQ in presence of an organic acid.

IT 3904-18-5P, 1-(2,4,5-Trimethoxyphenyl)-1-propanone
(DDQ-mediated one step dimerization of β-asarone or β-asarone rich Acorus calamus oil in the formation of novel neolignans)
RN 3904-18-5 USPATFULL
CN 1-Propanone, 1-(2,4,5-trimethoxyphenyl)- (9CI) (CA INDEX NAME)



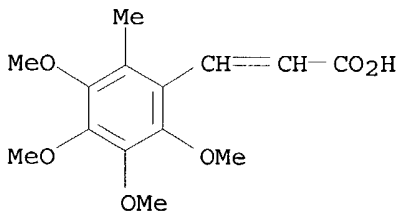
L13 ANSWER 10 OF 16 USPATFULL on STN
AN 2003:165421 USPATFULL
TI Process for the preparation of 1-Propyl-2, 4, 5- trimethoxybenzene from toxic beta-asarone of Acorus calamus or from crude calamus oil containing beta-asarone
IN Sinha, Arun Kumar, Himachal Pradesh, INDIA
PA COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH (non-U.S. corporation)
PI US 2003113275 A1 20030619
AI US 2003-338327 A1 20030108 (10)
RLI Division of Ser. No. US 2001-957867, filed on 21 Sep 2001, GRANTED, Pat. No. US 6528041 Division of Ser. No. US 2000-652376, filed on 31 Aug 2000, PENDING
DT Utility
FS APPLICATION
LREP LADAS & PARRY, 26 WEST 61ST STREET, NEW YORK, NY, 10023
CLMN Number of Claims: 12
ECL Exemplary Claim: 1
DRWN 6 Drawing Page(s)
LN.CNT 829
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB The invention relates to a process for the preparation of 1-Propyl-2, 4, 5-trimethoxybenzene useful as a aroma molecule and as a starting material and intermediate for preparation of various drugs. The process comprises providing crude calamus oil or β-asarone in a solvent, hydrogenating the solution in the presence of a catalyst, filtering the catalyst and removing the solvent under reduced pressure, subjecting the reduced calamus oil to column of silica gel chromatography using an eluent to obtain the desired product in liquid form with 85-97% purity.
IT 6906-65-6P, Benzene, 1,2,4-trimethoxy-5-propyl-
(preparation of 1-propyl-2,4,5-trimethoxybenzene from toxic β-asarone of Acorus calamus or from crude calamus oil containing β-asarone)
RN 6906-65-6 USPATFULL
CN Benzene, 1,2,4-trimethoxy-5-propyl- (7CI, 8CI, 9CI) (CA INDEX NAME)



L13 ANSWER 11 OF 16 USPATFULL on STN
AN 90:57872 USPATFULL
TI Benzoquinone derivatives and production thereof
IN Terao, Shinji, Toyonaka, Japan
Okazaki, Hisayoshi, Kyoto, Japan
Imada, Isuke, Izumi, Japan
PA Takeda Chemical Industries, Ltd., Osaka, Japan (non-U.S. corporation)
PI US 4943645 19900724
AI US 1989-390871 19890808 (7)

09/652,376

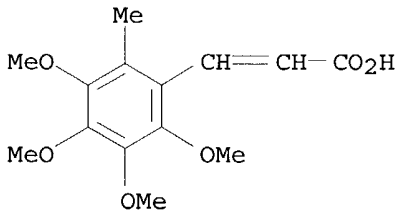
RLI Division of Ser. No. US 1988-268495, filed on 8 Nov 1988 which is a division of Ser. No. US 1988-168321, filed on 18 Mar 1988, now patented, Pat. No. US 4808339 which is a division of Ser. No. US 1988-717098, filed on 28 Mar 1988, now patented, Pat. No. US 4751303 which is a division of Ser. No. US 1983-484232, filed on 12 Apr 1983, now patented, Pat. No. US 4526719
PRAI JP 1982-62224 19820413
DT Utility
FS Granted
EXNAM Primary Examiner: Raymond, Richard L.; Assistant Examiner: Covington, Raymond
LREP Wenderoth, Lind & Ponack
CLMN Number of Claims: 7
ECL Exemplary Claim: 1
DRWN No Drawings
LN.CNT 1310
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB A novel benzoquinone derivative of the general formula: ##STR1## [wherein R.sub.1 and R.sub.2 are the same or different and each is methyl or methoxy; n is an integer of 0 to 21; m is 0 or 1, Z is a group of the formula: ##STR2## (wherein R.sub.3 and R.sub.4 are the same or different and each is hydrogen or an alkyl group which may optionally be substituted or, R.sub.3 and R.sub.4 together with the adjacent nitrogen atom form a morpholino group), a group of the formula: --COR.sub.5 (wherein R.sub.5 is an α-amino acid residue or a substituted or unsubstituted glucosamine residue), a group of the formula: ##STR3## (wherein R.sub.6 is a divalent hydrocarbon group of 1 to 3 carbon atoms), a group of the formula: ##STR4## (wherein R.sub.6 has the same meaning as defined above) or a group of the formula: ##STR5## (wherein l is an integer of 1 to 4 and R.sub.7 is hydroxy, methoxy or methyl)] has protocollagen-proline hydroxylase inhibiting activity, collagen biosynthesis inhibiting activity and 5-lipoxygenase suppressant activity, and is useful for the prevention and treatment of such diseases as pulmonary fibrosis, hepatocirrhosis, nephrosclerosis, arteriosclerosis, scleroderma, myelofibrosis and chronic arthritis or for the prevention and treatment of asthma, allergic rhinitis, urticaria, etc.
IT 89048-11-3P
(preparation of)
RN 89048-11-3 USPATFULL
CN 2-Propenoic acid, 3-(2,3,4,5-tetramethoxy-6-methylphenyl)- (9CI) (CA INDEX NAME)



L13 ANSWER 12 OF 16 USPATFULL on STN
AN 89:85903 USPATFULL
TI Benzoquinone derivatives and production thereof
IN Terao, Shinji, Toyonaka, Japan
Okazaki, Hisayoshi, Kyoto, Japan
Imada, Isuke, Izumi, Japan
PA Takeda Chemical Industries, Ltd., Osaka, Japan (non-U.S. corporation)

09/652,376

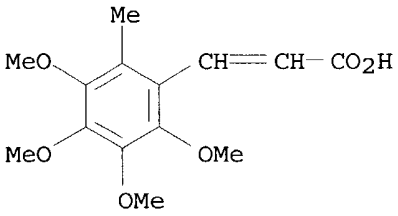
PI US 4874752 19891017
AI US 1988-268495 19881108 (7)
RLI Division of Ser. No. US 1988-168321, filed on 18 Mar 1988, now patented, Pat. No. US 4808339 which is a division of Ser. No. US 1985-717098, filed on 28 Mar 1985, now patented, Pat. No. US 4751303 which is a division of Ser. No. US 1983-484232, filed on 12 Apr 1983, now patented, Pat. No. US 4526719
PRAI JP 1982-62224 19820413
DT Utility
FS Granted
EXNAM Primary Examiner: Raymond, Richard L.; Assistant Examiner: Covington, Raymond
LREP Wenderoth, Lind & Ponack
CLMN Number of Claims: 9
ECL Exemplary Claim: 1
DRWN No Drawings
LN.CNT 1277
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB A novel benzoquinone derivative of the general formula: ##STR1## [wherein R.sub.1 and R.sub.2 are the same or different and each is methyl or methoxy; n is an integer of 0 to 21; m is 0 or 1, Z is a group of the formula: ##STR2## (wherein R.sub.3 and R.sub.4 are the same or different and each is hydrogen or an alkyl group which may optionally be substituted or, R.sub.3 and R.sub.4 together with the adjacent nitrogen atom form a morpholino group), a group of the formula: --COR.sub.5 (wherein R.sub.5 is an α-amino acid residue or a substituted or unsubstituted glucosamine residue), a group of the formula: ##STR3## (wherein R.sub.6 is a divalent hydrocarbon group of 1 to 3 carbon atoms), a group of the formula: ##STR4## (wherein R.sub.6 has the same meaning as defined above) or a group of the formula: --CH.dbd.CH).sub.l COR.sub.7 (wherein l is an integer of 1 to 4 and R.sub.7 is hydroxy, methoxy or methyl)] has protocollagen-proline hydroxylase inhibiting activity, collagen biosynthesis inhibiting activity and 5-lipoxygenase suppressant activity, and is useful for the prevention and treatment of such diseases as pulmonary fibrosis, hepatocirrhosis, nephrosclerosis, arteriosclerosis, scleroderma, myelofibrosis and chronic arthritis or for the prevention and treatment of asthma, allergic rhinitis, urticaria, etc.
IT 89048-11-3P
(preparation of)
RN 89048-11-3 USPATFULL
CN 2-Propenoic acid, 3-(2,3,4,5-tetramethoxy-6-methylphenyl)- (9CI) (CA INDEX NAME)



L13 ANSWER 13 OF 16 USPATFULL on STN
AN 89:14802 USPATFULL
TI Benzoquinone derivatives
IN Terao, Shinji, Toyonaka, Japan
Okazaki, Hisayoshi, Kyoto, Japan
Imada, Isuke, Izumi, Japan

09/652,376

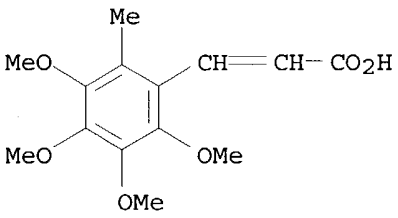
PA Takeda Chemical Industries, Ltd., Osaka, Japan (non-U.S. corporation)
PI US 4808339 19890228
AI US 1988-168321 19880318 (7)
RLI Division of Ser. No. US 1985-717098, filed on 28 Mar 1985, now patented, Pat. No. US 4751303 which is a division of Ser. No. US 1983-484232, filed on 12 Apr 1983, now patented, Pat. No. US 4526719
DT Utility
FS Granted
EXNAM Primary Examiner: Raymond, Richard L.; Assistant Examiner: Covington, Raymond
LREP Wenderoth, Lind & Ponack
CLMN Number of Claims: 9
ECL Exemplary Claim: 1
DRWN No Drawings
LN.CNT 1271
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB A novel benzoquinone derivative of the general formula: ##STR1## wherein R.sub.1 and R.sub.2 are the same or different and each is methyl or methoxy; n is an integer of 0 to 21; m is 0 or 1, Z is a group of the formula: ##STR2## (wherein R.sub.3 and R.sub.4 are the same or different and each is hydrogen or an alkyl group which may optionally be substituted or, R.sub.3 and R.sub.4 together with the adjacent nitrogen atom form a morpholino group), a group of the formula: --COR.sub.5 (wherein R.sub.5 is an α-amino acid residue or a substituted or unsubstituted glucosamine residue), a group of the formula: ##STR3## (wherein R.sub.6 is a divalent hydrocarbon group of 1 to 3 carbon atoms), a group of the formula: ##STR4## (wherein R.sub.6 has the same meaning as defined above) or a group of the formula: ##STR5## (wherein l is an integer of 1 to 4 and R.sub.7 is hydroxy, methoxy or methyl) has protocollagen-proline hydroxylase inhibiting activity, collagen biosynthesis inhibiting activity and 5-lipoxygenase suppressant activity, and is useful for the prevention and treatment of such diseases as pulmonary fibrosis, hepatocirrhosis, nephrosclerosis, arteriosclerosis, scleroderma, myelofibrosis and chronic arthritis or for the prevention and treatment of asthma, allergic rhinitis, urticaria, etc.
IT 89048-11-3P
(preparation of)
RN 89048-11-3 USPATFULL
CN 2-Propenoic acid, 3-(2,3,4,5-tetramethoxy-6-methylphenyl)- (9CI) (CA INDEX NAME)



L13 ANSWER 14 OF 16 USPATFULL on STN
AN 88:37763 USPATFULL
TI Benzoquinone derivatives and production thereof
IN Terao, Shinji, Toyonaka, Japan
Okazaki, Hisayoshi, Kyoto, Japan
Imada, Isuke, Izumi, Japan
PA Takeda Chemical Industries, Ltd., Osaka, Japan (non-U.S. corporation)
PI US 4751303 19880614

09/652,376

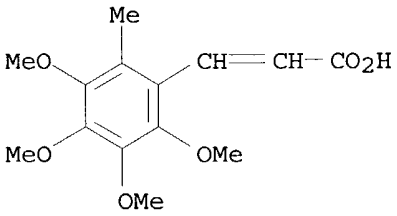
AI US 1985-717098 19850328 (6)
RLI Division of Ser. No. US 1983-484232, filed on 11 Apr 1983, now patented, Pat. No. US 4526719
PRAI JP 1982-62224 19820413
DT Utility
FS Granted
EXNAM Primary Examiner: Raymond, Richard L.; Assistant Examiner: Covington, Raymond
LREP Wenderoth, Lind & Ponack
CLMN Number of Claims: 6
ECL Exemplary Claim: 1
DRWN No Drawings
LN.CNT 1266
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB A novel benzoquinone derivative of the general formula: ##STR1## [wherein R.sub.1 and R.sub.2 are the same or different and each is methyl or methoxy; n is an integer of 0 to 21; m is 0 or 1, Z is a group of the formula: (wherein R.sub.3 and R.sub.4 are the same or different and each is hydrogen or an alkyl group which may optionally be substituted or, R.sub.3 and R.sub.4 together with the adjacent nitrogen atom form a morpholino group), a group of the formula: --COR.sub.5 (wherein R.sub.5 is an α-amino acid residue or a substituted or unsubstituted glucosamine residue), a group of the formula: ##STR2## (wherein R.sub.6 is a divalent hydrocarbon group of 1 to 3 carbon atoms), a group of the formula: ##STR3## (wherein R.sub.6 has the same meaning as defined above) or a group of the formula: --CH.dbd.CH).sub.l COR.sub.7 (wherein l is an integer of 1 to 4 and R.sub.7 is hydroxy, methoxy or methyl)] has protocollagen-proline hydroxylase inhibiting activity, collagen biosynthesis inhibiting activity and 5-lipoxygenase suppressant activity, and is useful for the prevention and treatment of such diseases as pulmonary fibrosis, hepatocirrhosis, nephrosclerosis, arteriosclerosis, scleroderma, myelofibrosis and chronic arthritis or for the prevention and treatment of asthma, allergic rhinitis, urticaria, etc.
IT 89048-11-3P
(preparation of)
RN 89048-11-3 USPATFULL
CN 2-Propenoic acid, 3-(2,3,4,5-tetramethoxy-6-methylphenyl)- (9CI) (CA INDEX NAME)



L13 ANSWER 15 OF 16 USPATFULL on STN
AN 85:38685 USPATFULL
TI Benzoquinone derivatives and production thereof
IN Terao, Shinji, Toyonaka, Japan
Okazaki, Hisayoshi, Kyoto, Japan
Imada, Isuke, Izumi, Japan
PA Takeda Chemical Industries, Ltd., Osaka, Japan (non-U.S. corporation)
PI US 4526719 19850702
AI US 1983-484232 19830412 (6)
PRAI JP 1982-62224 19820413

09/652,376

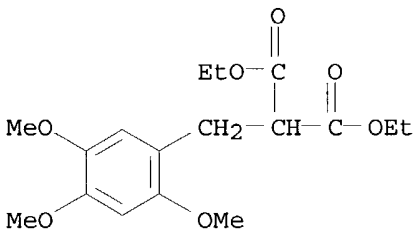
DT Utility
FS Granted
EXNAM Primary Examiner: Ramsuer, Robert W.
LREP Wenderoth, Lind and Ponack
CLMN Number of Claims: 6
ECL Exemplary Claim: 1
DRWN No Drawings
LN.CNT 1240
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB A novel benzoquinone derivative of the general formula: ##STR1## [wherein R.sub.1 and R.sub.2 are the same or different and each is methyl or methoxy; n is an integer of 0 to 21; m is 0 or 1, Z is a group of the formula: ##STR2## (wherein R.sub.3 and R.sub.4 are the same or different and each is hydrogen or an alkyl group which may optionally be substituted or, R.sub.3 and R.sub.4 together with the adjacent nitrogen atom form a morpholino group), a group of the formula: --COR.sub.5 (wherein R.sub.5 is an α-amino acid residue or a substituted or unsubstituted glucosamine residue), a group of the formula: ##STR3## (wherein R.sub.6 is a divalent hydrocarbon group of 1 to 3 carbon atoms), a group of the formula: ##STR4## (wherein R.sub.6 has the same meaning as defined above) or a group of the formula: --CH.dbd.CH.sub.l --COR.sub.7 (wherein l is an integer of 1 to 4 and R.sub.7 is hydroxy, methoxy or methyl)] has protocollagen-proline hydroxylase inhibiting activity, collagen biosynthesis inhibiting activity and 5-lipoxygenase suppressant activity, and is useful for the prevention and treatment of such diseases as pulmonary fibrosis, hepatocirrhosis, nephrosclerosis, arteriosclerosis, scleroderma, myelofibrosis and chronic arthritis or for the prevention and treatment of asthma, allergic rhinitis, urticaria, etc.
IT 89048-11-3P
(preparation of)
RN 89048-11-3 USPATFULL
CN 2-Propenoic acid, 3-(2,3,4,5-tetramethoxy-6-methylphenyl)- (9CI) (CA INDEX NAME)



L13 ANSWER 16 OF 16 USPATFULL on STN
AN 83:12103 USPATFULL
TI Thiazolidine derivatives use
IN Kawamatsu, Yutaka, Kyoto, Japan
Sohda, Takashi, Takatsuki, Japan
Hirata, Takeo, Osaka, Japan
PA Takeda Chemical Industries, Ltd., Osaka, Japan (non-U.S. corporation)
PI US 4376777 19830315
AI US 1981-222881 19810106 (6)
PRAI JP 1980-762 19800107
DT Utility
FS Granted
EXNAM Primary Examiner: Rizzo, Nicholas S.
LREP Wenderoth, Lind & Ponack
CLMN Number of Claims: 19

09/652,376

ECL Exemplary Claim: 1
DRWN No Drawings
LN.CNT 481
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB A thiazolidine derivative of the formula: ##STR1## wherein R.sub.1 is hydrogen, hydroxyl, lower alkyl having 1 to 4 carbon atoms, lower alkoxy having 1 to 4 carbon atoms, or lower carboxylic acyloxy having 2 to 4 carbon atoms; each of R.sub.2 and R.sub.3 is hydroxyl, lower alkyl having 1 to 4 carbon atoms, lower alkoxy having 1 to 4 carbon atoms or lower carboxylic acyloxy having 2 to 4 carbon atoms or pharmaceutically acceptable salt thereof a is a novel compound having antiulcer activity and inhibitory effect on gastric acid secretion. The compound is useful as antiulcer agent or inhibitory agent of gastric acid secretion.
IT 79524-93-9P
(preparation and chlorination of)
RN 79524-93-9 USPATFULL
CN Propanedioic acid, [(2,4,5-trimethoxyphenyl)methyl]-, diethyl ester (9CI) (CA INDEX NAME)



=> d his

(FILE 'HOME' ENTERED AT 08:37:44 ON 17 AUG 2004)

FILE 'STNGUIDE' ENTERED AT 08:37:56 ON 17 AUG 2004

FILE 'HOME' ENTERED AT 08:38:01 ON 17 AUG 2004

FILE 'REGISTRY' ENTERED AT 08:38:22 ON 17 AUG 2004
L1 SCREEN 1992 OR 2016 OR 2021 OR 2026 OR 1839
L2 STRUCTURE UPLOADED
L3 QUE L2 NOT L1
L4 8 S L3
L5 175 S L3 FUL

FILE 'STNGUIDE' ENTERED AT 08:39:02 ON 17 AUG 2004

FILE 'REGISTRY' ENTERED AT 08:40:44 ON 17 AUG 2004
L6 SCREEN 1992 OR 2016 OR 2021 OR 2026 OR 1839
L7 STRUCTURE UPLOADED
L8 QUE L7 NOT L6
L9 4 S L8
L10 85 S L8 FUL

FILE 'CAPLUS, USPATFULL' ENTERED AT 08:42:08 ON 17 AUG 2004
L11 60 S L5 AND L10
L12 56 DUP REM L11 (4 DUPLICATES REMOVED)
L13 16 S L12 AND HYDROGENAT?

=> s l5/prep

'PREP' IS NOT A VALID CROSSOVER QUALIFIER FOR L5
Answer sets created in a different file may be field qualified with a limited set of qualifiers. Enter HELP CROSSOVER at an arrow prompt (=>) for specific information.

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=> file caplus
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                         ENTRY    SESSION
FULL ESTIMATED COST                                      99.42     411.34

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)          SINCE FILE      TOTAL
                                                         ENTRY    SESSION
CA SUBSCRIBER PRICE                                      -5.88      -5.88

FILE 'CAPLUS' ENTERED AT 08:47:38 ON 17 AUG 2004
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
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FILE COVERS 1907 - 17 Aug 2004  VOL 141 ISS 8
FILE LAST UPDATED: 16 Aug 2004  (20040816/ED)

  This file contains CAS Registry Numbers for easy and accurate
  substance identification.


=> s l5/prep
          157 L5
      3184303 PREP/RL
L14         99 L5/PREP
                (L5 (L) PREP/RL)

=> dup rem l14
PROCESSING COMPLETED FOR L14
L15         99 DUP REM L14 (0 DUPLICATES REMOVED)

=> s l15 and 1700-2000/py
L16         99 S L15
     20617273 1700-2000/PY
L17         80 L16 AND 1700-2000/PY

=> d 1-80 ti

L17  ANSWER 1 OF 80  CAPLUS  COPYRIGHT 2004 ACS on STN
TI   Synthesis of 1,2,3,4-tetrahydroxybenzene and 1,2,3-trihydroxybenzene using
     myo-inositol-1-phosphate synthase and myo-inositol 2-dehydrogenase

L17  ANSWER 2 OF 80  CAPLUS  COPYRIGHT 2004 ACS on STN
TI   Phenylpropanes from Acorus tatarinowii

L17  ANSWER 3 OF 80  CAPLUS  COPYRIGHT 2004 ACS on STN
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TI Synthesis of 1,2,3,4-tetrahydroxybenzenes and 1,2,3-trihydroxybenzenes using myo-inositol-1-phosphate synthase and myo-inositol 2-dehydrogenase

L17 ANSWER 4 OF 80 CAPLUS COPYRIGHT 2004 ACS on STN
TI Natural-product hybrids: design, synthesis, and biological evaluation of quinone-annonaceous acetogenins

L17 ANSWER 5 OF 80 CAPLUS COPYRIGHT 2004 ACS on STN
TI Antifungal and Larvicidal Compounds from the Root Bark of Cordia alliodora

L17 ANSWER 6 OF 80 CAPLUS COPYRIGHT 2004 ACS on STN
TI Preparation of indolylpropenone derivatives as antitumor agents, immunosuppressants, and therapeutic agents for autoimmune disease

L17 ANSWER 7 OF 80 CAPLUS COPYRIGHT 2004 ACS on STN
TI 2,4,5-Trimethoxypropiophenone from Piper marginatum

L17 ANSWER 8 OF 80 CAPLUS COPYRIGHT 2004 ACS on STN
TI Preparation and formulation of carboxylic acid derivatives as apolipoprotein A-I secretion promoters

L17 ANSWER 9 OF 80 CAPLUS COPYRIGHT 2004 ACS on STN
TI Amide and urea derivatives as ACAT inhibitors and antiarteriosclerotics

L17 ANSWER 10 OF 80 CAPLUS COPYRIGHT 2004 ACS on STN
TI Role of the Isoprenyl Tail of Ubiquinone in Reaction with Respiratory Enzymes: Studies with Bovine Heart Mitochondrial Complex I and Escherichia coli bo-Type Ubiquinol Oxidase

L17 ANSWER 11 OF 80 CAPLUS COPYRIGHT 2004 ACS on STN
TI Preparation of bicyclic quinones as mitochondrial function activators

L17 ANSWER 12 OF 80 CAPLUS COPYRIGHT 2004 ACS on STN
TI Preparation of N-phenylamides and N-phenylureas as ACTA inhibitors and as cholesterol-lowering and antiarteriosclerotic agents

L17 ANSWER 13 OF 80 CAPLUS COPYRIGHT 2004 ACS on STN
TI Preparation of N-(carbamoylphenyl)alkanamides and analogs as cholesterol acyltransferase inhibitors

L17 ANSWER 14 OF 80 CAPLUS COPYRIGHT 2004 ACS on STN
TI Preparation of N-phenylalkanamide and N-phenethyl-N'-phenylurea derivatives as acyl-CoA:cholesterol acyltransferase (ACAT) inhibitors and antiarteriosclerotics

L17 ANSWER 15 OF 80 CAPLUS COPYRIGHT 2004 ACS on STN
TI Preparation of indolylpropenone derivatives as antitumor agents

L17 ANSWER 16 OF 80 CAPLUS COPYRIGHT 2004 ACS on STN
TI preparation of heterocyclylphenylurea and amide derivatives

L17 ANSWER 17 OF 80 CAPLUS COPYRIGHT 2004 ACS on STN
TI Preparation of 3-[(4-benzoylpiperidino)alkyl]benzopyran-4-ones as 5-HT antagonists

L17 ANSWER 18 OF 80 CAPLUS COPYRIGHT 2004 ACS on STN
TI Photopolymerizable composition with high visible light sensitivity for imaging system

L17 ANSWER 19 OF 80 CAPLUS COPYRIGHT 2004 ACS on STN
TI Preparation of N-(2-thiazolyl)indole-2-carboxamides and analogs as CCK receptor antagonists

L17 ANSWER 20 OF 80 CAPLUS COPYRIGHT 2004 ACS on STN
TI Thiazolidine compounds containing a quinone group, their preparation and their therapeutic uses

L17 ANSWER 21 OF 80 CAPLUS COPYRIGHT 2004 ACS on STN
TI Antidiabetic thiazolidine compounds

L17 ANSWER 22 OF 80 CAPLUS COPYRIGHT 2004 ACS on STN
TI A facile chemoenzymic route to optically active (E)-4,5-disubstituted 2-hexenoate derivatives. I

L17 ANSWER 23 OF 80 CAPLUS COPYRIGHT 2004 ACS on STN
TI Synthesis and hypolipidemic activity of some α-asarone analogs

L17 ANSWER 24 OF 80 CAPLUS COPYRIGHT 2004 ACS on STN
TI Preparation of 3-alkylflavone derivatives as 5-lipoxygenase inhibitors

L17 ANSWER 25 OF 80 CAPLUS COPYRIGHT 2004 ACS on STN
TI Syntheses of 5,7,8- and 5,6,7-trioxygenated 3-alkyl-3',4'-dihydroxyflavones and their inhibitory activities against arachidonate 5-lipoxygenase

L17 ANSWER 26 OF 80 CAPLUS COPYRIGHT 2004 ACS on STN
TI An investigation into the unusual formation of an isocoumarin by acylation of 2,3,6-trimethoxytoluene with (E)-2-methylbut-2-enoic acid and trifluoroacetic anhydride

L17 ANSWER 27 OF 80 CAPLUS COPYRIGHT 2004 ACS on STN
TI An efficient synthesis of α-asarone

L17 ANSWER 28 OF 80 CAPLUS COPYRIGHT 2004 ACS on STN
TI Synthesis of Z- and E-asarone

L17 ANSWER 29 OF 80 CAPLUS COPYRIGHT 2004 ACS on STN
TI Synthesis, antiinflammatory activity and metabolism of alkyl aryl ketones and their derivatives

L17 ANSWER 30 OF 80 CAPLUS COPYRIGHT 2004 ACS on STN
TI Preparation of quinone imine ketals via intramolecular condensation of amino-substituted quinone monoketals. Anodic oxidation chemistry of trifluoroacetamide derivatives of 1,4-dimethoxybenzenes and 4-methoxyphenols

L17 ANSWER 31 OF 80 CAPLUS COPYRIGHT 2004 ACS on STN
TI Potential antipsychotic agents. 5. Synthesis and antidopaminergic properties of substituted 5,6-dimethoxysalicylamides and related compounds

L17 ANSWER 32 OF 80 CAPLUS COPYRIGHT 2004 ACS on STN
TI Synthesis of hormothamnione

L17 ANSWER 33 OF 80 CAPLUS COPYRIGHT 2004 ACS on STN
TI Gastric anti-secretory, anti-ulcer and cytoprotective properties of substituted (E)-4-phenyl- and heteroaryl-4-oxo-2-butenoic acids

L17 ANSWER 34 OF 80 CAPLUS COPYRIGHT 2004 ACS on STN
TI Synthesis of hormothamnione

L17 ANSWER 35 OF 80 CAPLUS COPYRIGHT 2004 ACS on STN
TI Structure and synthesis of alflabene from Alpinia flabellata Ridl

L17 ANSWER 36 OF 80 CAPLUS COPYRIGHT 2004 ACS on STN

TI Synthesis of (3,3-dimethyloxiranyl)quinones and (dimethylacetyl)quinones as potential cytostatics

L17 ANSWER 37 OF 80 CAPLUS COPYRIGHT 2004 ACS on STN
TI Synthesis of hexahydro-2-oxophenanthrene derivatives and the dehydrogenation products

L17 ANSWER 38 OF 80 CAPLUS COPYRIGHT 2004 ACS on STN
TI Preparation and spectroscopy of 3-ethyl-6,7-dimethoxy-4H-1,2-benzoxazin-4-one

L17 ANSWER 39 OF 80 CAPLUS COPYRIGHT 2004 ACS on STN
TI Selective demethylative cyclization of 2-methoxyallylbenzenes

L17 ANSWER 40 OF 80 CAPLUS COPYRIGHT 2004 ACS on STN
TI Two new syntheses of the pyranojuglone pigment α-caryopterone

L17 ANSWER 41 OF 80 CAPLUS COPYRIGHT 2004 ACS on STN
TI Unexpected adduct ion formation under chemical ionization conditions

L17 ANSWER 42 OF 80 CAPLUS COPYRIGHT 2004 ACS on STN
TI Effects of 6-(ω-substituted alkyl)-2,3-dimethoxy-5-methyl-1,4-benzoquinones and related compounds on mitochondrial succinate and reduced nicotinamide adenine dinucleotide oxidase systems

L17 ANSWER 43 OF 80 CAPLUS COPYRIGHT 2004 ACS on STN
TI Regio- and stereoselective terminal allylic carboxymethylation of gem-dimethyl olefins. Synthesis of biologically important linear degraded terpenoids

L17 ANSWER 44 OF 80 CAPLUS COPYRIGHT 2004 ACS on STN
TI Synthesis of E- and Z-asarones and their analogs

L17 ANSWER 45 OF 80 CAPLUS COPYRIGHT 2004 ACS on STN
TI Derivatives of 1,3-benzodioxole, 51. Preparation and reactions of 6,7,8,9-tetrahydrocyclohepta[4,5]benzo[1,2-d][1,3]dioxol-5-one

L17 ANSWER 46 OF 80 CAPLUS COPYRIGHT 2004 ACS on STN
TI A mechanistic deviation in the synthesis of indoles. Preparation of new substituted benzylindoles

L17 ANSWER 47 OF 80 CAPLUS COPYRIGHT 2004 ACS on STN
TI An improved synthesis of 2'-hydroxy-3',4',6'-trimethoxyacylophenones

L17 ANSWER 48 OF 80 CAPLUS COPYRIGHT 2004 ACS on STN
TI Antiulcer activity of 5-benzylthiazolidine-2,4-dione derivatives

L17 ANSWER 49 OF 80 CAPLUS COPYRIGHT 2004 ACS on STN
TI Quinones. Part 3. Synthesis of quinone derivatives having ethylenic and acetylenic bonds: specific inhibitors of the formation of leukotrienes and 5-hydroxyeicosa-6,8,11,14-tetraenoic acid (5-HETE)

L17 ANSWER 50 OF 80 CAPLUS COPYRIGHT 2004 ACS on STN
TI Olefins from β-hydroxycarboxylic acids - synthesis of isomerically pure α- and β-asarone

L17 ANSWER 51 OF 80 CAPLUS COPYRIGHT 2004 ACS on STN
TI Quinones. Part 2. General synthetic routes to quinone derivatives with modified polyprenyl side chains and the inhibitory effects of these quinones on the generation of the slow reacting substance of anaphylaxis (SRS-A)

L17 ANSWER 52 OF 80 CAPLUS COPYRIGHT 2004 ACS on STN
TI Phenyl aliphatic carboxylic acid derivatives and their use in pharmaceutical compositions

L17 ANSWER 53 OF 80 CAPLUS COPYRIGHT 2004 ACS on STN
TI Synthesis of dihydrobenzofuran derivatives from substituted p-benzoquinones

L17 ANSWER 54 OF 80 CAPLUS COPYRIGHT 2004 ACS on STN
TI Dipole moments of some transition metal complexes of five new monothio-β-diketones

L17 ANSWER 55 OF 80 CAPLUS COPYRIGHT 2004 ACS on STN
TI Stability of phenylpropane derivatives. III. Photochemical formation of 3-methoxy-(2,4,5-trimethoxyphenyl)propane from trans-isoasarone in methanol

L17 ANSWER 56 OF 80 CAPLUS COPYRIGHT 2004 ACS on STN
TI Quinone compounds and their use as drugs or drug intermediates

L17 ANSWER 57 OF 80 CAPLUS COPYRIGHT 2004 ACS on STN
TI Substituent effects in the reaction of tert-butylmagnesium chloride with substituted ethyl cinnamates. A correlation with carbon-13 NMR chemical shifts

L17 ANSWER 58 OF 80 CAPLUS COPYRIGHT 2004 ACS on STN
TI Thiazolidine derivatives

L17 ANSWER 59 OF 80 CAPLUS COPYRIGHT 2004 ACS on STN
TI Coloring matters of Australian plants. XXIII. A new synthesis of arylphenalenones and naphthoxanthenones

L17 ANSWER 60 OF 80 CAPLUS COPYRIGHT 2004 ACS on STN
TI 1,2-Dimethoxy-4-isopropoxy-5-vinylbenzene, an insect anti-juvenile hormone lacking the chromene ring

L17 ANSWER 61 OF 80 CAPLUS COPYRIGHT 2004 ACS on STN
TI Studies on Thai medicinal plants. Part VIII. Further characterization of the constituents of a Thai medicinal plant, Zingiber cassumunar Roxb

L17 ANSWER 62 OF 80 CAPLUS COPYRIGHT 2004 ACS on STN
TI Synthetic and preliminary hemodynamic and whole animal toxicity studies on (R,S)-, (R)-, and (S)-2-methyl-3-(2,4,5-trihydroxyphenyl)alanine

L17 ANSWER 63 OF 80 CAPLUS COPYRIGHT 2004 ACS on STN
TI Use of the Houben-Hoesch reaction for the synthesis of polymethoxylated aryl and diaryl heterocyclic compounds

L17 ANSWER 64 OF 80 CAPLUS COPYRIGHT 2004 ACS on STN
TI Isolation and structure of alflabene from Alpinia flabellata Ridl

L17 ANSWER 65 OF 80 CAPLUS COPYRIGHT 2004 ACS on STN
TI Formation of coumarins from β-diketones: part III. Partial alkylation of 5,8-dihydroxy-7-methoxy-4-methylcoumarin

L17 ANSWER 66 OF 80 CAPLUS COPYRIGHT 2004 ACS on STN
TI A new synthesis of 4-methylcoumarins

L17 ANSWER 67 OF 80 CAPLUS COPYRIGHT 2004 ACS on STN
TI Derivatives of hydroxyquinol. Part 4. A synthesis of di-O-methylcitromycin; electronic effects in hydroxyquinol derivatives

L17 ANSWER 68 OF 80 CAPLUS COPYRIGHT 2004 ACS on STN
TI The new synthesis of (±)-royleanone

L17 ANSWER 69 OF 80 CAPLUS COPYRIGHT 2004 ACS on STN
TI 4-Hydroxycoumarins. IV. Synthesis of 5,7,8-trimethoxy- and 5,6,7,8-tetramethoxy-4-hydroxycoumarins

L17 ANSWER 70 OF 80 CAPLUS COPYRIGHT 2004 ACS on STN
TI Alkylation of polyphenol derivatives. III. 2,6-Di-n-alkyl-1,4-benzoquinones with long alkyl chains

L17 ANSWER 71 OF 80 CAPLUS COPYRIGHT 2004 ACS on STN
TI Structure-activity relations in psychotomimetic phenylalkylamines

L17 ANSWER 72 OF 80 CAPLUS COPYRIGHT 2004 ACS on STN
TI 3-(Trisubstituted benzoyl)propionic acids

L17 ANSWER 73 OF 80 CAPLUS COPYRIGHT 2004 ACS on STN
TI New cinnamaldehyde from Patagonula americana

L17 ANSWER 74 OF 80 CAPLUS COPYRIGHT 2004 ACS on STN
TI Ketones containing the 2,4,5-trimethoxyphenyl ring. Synthesis and spectroscopy of new compounds

L17 ANSWER 75 OF 80 CAPLUS COPYRIGHT 2004 ACS on STN
TI Synthesis and spectroscopy of various asarylic acids and related compounds

L17 ANSWER 76 OF 80 CAPLUS COPYRIGHT 2004 ACS on STN
TI Synthesis and some pharmacological actions of asarone

L17 ANSWER 77 OF 80 CAPLUS COPYRIGHT 2004 ACS on STN
TI Synthesis of tanshinones

L17 ANSWER 78 OF 80 CAPLUS COPYRIGHT 2004 ACS on STN
TI Isolation of 2,4,5-trimethoxyallylbenzene from Caesulia axillaries oil

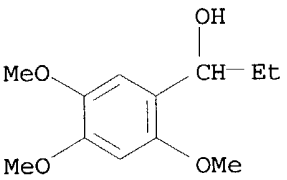
L17 ANSWER 79 OF 80 CAPLUS COPYRIGHT 2004 ACS on STN
TI Synthesis of tanshinone-II and cryptotanshinone

L17 ANSWER 80 OF 80 CAPLUS COPYRIGHT 2004 ACS on STN
TI Synthesis of some disubstituted naphthazarins

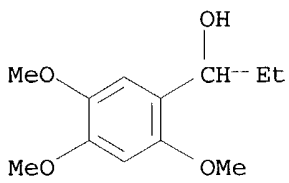
=> d 27, 28, 44, 76,78 bib ab fhitstr

L17 ANSWER 27 OF 80 CAPLUS COPYRIGHT 2004 ACS on STN
AN 1991:163854 CAPLUS
DN 114:163854
TI An efficient synthesis of α-asarone
AU Diaz, Francisco; Contreras, Leticia; Flores, Rosa; Tamariz, Joaquin; Labarrios, Fernando; Chamorro, German; Munoz, Heber
CS Dep. Chem., Esc. Nac. Cienc. Biol., Mexico City, 16000, Mex.
SO Organic Preparations and Procedures International (1991), 23(2), 133-8
CODEN: OPPIAK; ISSN: 0030-4948
DT Journal
LA English
AB Propionylation of 1,2,4-(MeO)3C6H3 with (EtCO)2O followed by hydride reduction and dehydration gave α-asarone (I).
IT 29652-82-2P, 1-(2,4,5-Trimethoxyphenyl)propan-1-ol
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation and dehydration of)
RN 29652-82-2 CAPLUS
CN Benzenemethanol, α-ethyl-2,4,5-trimethoxy- (9CI) (CA INDEX NAME)

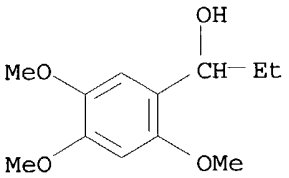


L17 ANSWER 28 OF 80 CAPLUS COPYRIGHT 2004 ACS on STN
AN 1991:5926 CAPLUS
DN 114:5926
TI Synthesis of Z- and E-asarone
AU Wang, Zhicai; Jiang, Lasheng; Xu, Xingxiang
CS Dep. Chem., Zhongshan Univ., Guangzhou, 510275, Peop. Rep. China
SO Youji Huaxue (1990), 10(4), 350-2
CODEN: YCHHDX; ISSN: 0253-2786
DT Journal
LA Chinese
OS CASREACT 114:5926
AB Stereoselective synthesis of asarone (I) by the reaction of 2,4,5-trimethoxybenzaldehyde and the appropriate Grignard or Wittig reagent under different conditions was described. In the approach with Grignard reaction, the major product was α-(E)-asarone, while the major product was either α-(E)- or β-(Z)-asarone in the Wittig approach depending on the reaction conditions.
IT 29652-82-2P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and dehydration of)
RN 29652-82-2 CAPLUS
CN Benzenemethanol, α-ethyl-2,4,5-trimethoxy- (9CI) (CA INDEX NAME)

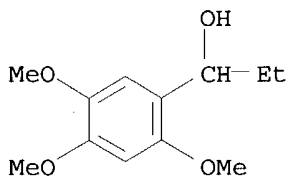


L17 ANSWER 44 OF 80 CAPLUS COPYRIGHT 2004 ACS on STN
AN 1985:541710 CAPLUS
DN 103:141710
TI Synthesis of E- and Z-asarones and their analogs
AU Shirokova, E. A.; Segal, G. M.; Torgov, I. V.
CS M. M. Shemyakin Inst. Bioorg. Chem., Moscow, USSR
SO Bioorganicheskaya Khimiya (1985), 11(2), 270-5
CODEN: BIKHD7; ISSN: 0132-3423
DT Journal
LA Russian
AB Isomeric asarones I were prepared by Wittig ethylidenation of 2,4,5-(MeO)3C6H2CHO and by acid-catalyzed or Al2O3-catalyzed dehydration of 2,4,5-(MeO)3C6H2CH(OH)Et. The asarone homolog II was similarly prepared
IT 29652-82-2P

RL: RCT (Reactant); PREP (Preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and dehydration of)
RN 29652-82-2 CAPLUS
CN Benzenemethanol, α-ethyl-2,4,5-trimethoxy- (9CI) (CA INDEX NAME)



L17 ANSWER 76 OF 80 CAPLUS COPYRIGHT 2004 ACS on STN
AN 1971:141156 CAPLUS
DN 74:141156
TI Synthesis and some pharmacological actions of asarone
AU Sharma, Pradyumna Kunior; Dandiya, P. C.
CS Dep. Biochem., Med. Coll., Ajmer, India
SO Indian Journal of Applied Chemistry (1969), 32(4), 236-8
CODEN: IJACAN; ISSN: 0019-5065
DT Journal
LA English
AB Asarone, i.e., trans-2,4,5-trimethoxy-1-propenylbenzene (I), the active principle of Acorus calamus, prepared from 1,2,4-(MeO)3C6H3 (II) by 2 different methods, prolonged barbiturate hypnosis and caused a hypotensive effect on the blood pressure of anesthetized dogs. II, prepared from p-benzoquinone, was treated with POCl3, and DMF to give 2,4,5-(MeO)3C6H2CHO (III). III, propionic anhydride and sodium propionate gave I. III and EtMgI hydrolyzed with H2SO4 and dehydrated with P(O)Cl3 gave I.
IT 29652-82-2P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 29652-82-2 CAPLUS
CN Benzenemethanol, α-ethyl-2,4,5-trimethoxy- (9CI) (CA INDEX NAME)



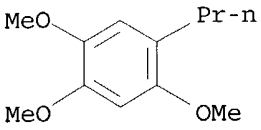
L17 ANSWER 78 OF 80 CAPLUS COPYRIGHT 2004 ACS on STN
AN 1969:31614 CAPLUS
DN 70:31614
TI Isolation of 2,4,5-trimethoxyallylbenzene from Caesulia axillaries oil
AU Devgan, O. N.; Bokadia, M. M.
CS Southern Illinois Univ., Carbondale, IL, USA
SO Australian Journal of Chemistry (1968), 21(12), 3001-3
CODEN: AJCHAS; ISSN: 0004-9425
DT Journal
LA English
AB The phenolic ether obtained from the essential oil of C. axillaries has been shown to be 2,4,5-trimethoxyallyl-benzene, on the basis of chemical and

spectroscopic evidence. It has tentatively been named as γ-asarone.

IT 6906-65-6P
RL: PREP (Preparation)
(from Caesulia axillaris oil)

RN 6906-65-6 CAPLUS

CN Benzene, 1,2,4-trimethoxy-5-propyl- (7CI, 8CI, 9CI) (CA INDEX NAME)



=> log y

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	61.74	473.08

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-3.68	-9.56

STN INTERNATIONAL LOGOFF AT 08:56:26 ON 17 AUG 2004